

FILTERING A PERMISSION SET USING PERMISSION REQUESTS ASSOCIATED
WITH A CODE ASSEMBLY

Abstract of the Invention

A security policy manager generates a permission grant set for a code assembly received
5 from a resource location. The policy manager can execute in a computer system (e.g., a Web
client) in combination with the verification module and class loader of the run-time environment.
The permission grant set generated for a code assembly is applied in the run-time call stack to
help the system determine whether a given system operation by the code assembly is authorized.
A permission request set may also be received in association with the code assembly. The
10 permission request set may include a minimum request set, specifying permissions required by
the code assembly to run properly. The permission request set may also include an optional
request set, specifying permissions requested by the code assembly to provide an alternative level
of functionality. In addition, the permission request set may include a refuse request set,
specifying permissions that are not to be granted to the code assembly. The permission requests
15 are used to filter a permission set to generate a permission grant set.